## WHAT IS CLAIMED IS:

- 1. An apparatus for measuring the temperature in an appliance, the apparatus comprising:
  - a voltage supply;
  - a temperature transducer comprising a variable resistance that changes in response to the temperature;
  - first and second resistors coupled in series between the voltage supply and ground to form a first voltage divider, the junction of the first voltage divider being coupled to an input of a microprocessor so as to provide a signal indicative of the voltage across the first resistor; and
  - a third resistor coupled in series with the temperature transducer between the voltage supply and ground to form a second voltage divider, the junction of the second voltage divider being coupled to an input of the microprocessor so as to provide a signal indicative of the voltage across the temperature transducer;
  - wherein the microprocessor determines a temperature using the voltage across the temperature transducer and the second resistor to determine the resistance of the temperature transducer.
- 2. The apparatus of claim 1 wherein the first and second resistors each comprise one or more individual resistors interconnected by one or more jumpers to provide suitable resistance values corresponding to the supply voltage.
- 3. The apparatus of claim 2 wherein the jumper also provides a signal to the microprocessor indicative of the supply voltage or resistance values selected.
- 4. The apparatus of claim 2 wherein a variable signal indicative of the supply voltage is connected to the microprocessor.

- 5. The apparatus of claim 1 wherein the microprocessor determines the temperature using a look-up table correlating the resistance of the temperature transducer to the temperature.
- 6. The apparatus of claim 5 wherein the temperature is corrected by an offset value determined during a calibration routine and stored in memory.

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